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XI. *Observatio Eclipsis Solis totalis cum mora facta Gothoburgi Sveciæ, sub elev. Poli 57° 40' 54", d. 2 Maij, stylo Jul. An. 1733, à Dom. Birgero Vassenio, Lectore Mathem. in Gymnatio Regio Gothoburg.*

INitium Eclipseos, quod ob nubes interpositas animadverti non potuit, ante 6^h 26' post mer. incidisse videtur.

6^h 38' 43'' ad tres fere digitos obscurabatur Sol.

6 49 52 ad sex plus minus digitos.

7 14 6 adparebat 4.

7 14 46 incepit totus tegi Solis discus.

7 15 50 Maximæ tenebræ, cum stellæ omnes urse majoris, cor α , Sirius, Procyon, Oculus γ , & nonnullæ aliæ videri poterant: non tamen δ neque ϵ conspecti.

7 16 54 Cum incredibili celeritate Sol radios ejaculari coepit.

7 20 12 adparebat adhuc 4.

7 41 38 ad sex digitos Sol tegebatur.

8 5 50 finis Eclipseis, toto lucente Solis disco.

Mora Eclipseos totalis *Gothoburgi Sveciæ*, 2' 8".

Mora hujus Eclipseis totalis in loco quodam *Swenaker* dicto, septem milliar. Svethic. hinc versus Septentrionem distante, sub Elev. Poli 58°. 15', ut ope penduli oscillatorii observavit Frater meus Germanus *Torßanus Vassenius*, erat 2' 31"

Tempore,

Tempore, quo Sol totus tegebatur, præter maximam partem macularum in disco, atmosphæram Lunæ, per Telescopium 21 fere pedum *Suetb.* vidi; eamque in limbo Lunæ occidentali, sub maxima immersione, paulo lucidiorem; absque tamen irregularitate illa & inæqualitate luminosorum radiorum, quæ in oculos sine tubo intuentium incurrebat. Admiratione non solum, sed & iudicio Illustrissimæ *Regiæ Societatis* maxime dignæ videbantur subrubicundæ nonnullæ maculæ in illa, extra peripheriam disci Lunariorum, conspectæ, numero tres aut quatuor; quas inter una erat ceteris major, medio fere loco inter meridiem & occidentem, quantum judicare licuit. Composita hæc erat tribus quasi partibus seu nubeculis minoribus parallelis inæqualis longitudinis, cum aliquali obliquitate ad peripheriam Lunæ. Admiratus Phænomenon Socio, qui lynceis erat oculis, copiam videndi feci. Ceterum, cum is tubo non adfvetus ne quidem lunare corpus inveniret; ipse iterum eandem maculam, aut, si mavis, nubem invariata situmque pristinum in Atmosphæra propè ad peripheriam Lunæ occupantem, sine omni suspitione vitii tubi aut oculi, per 40 aut plurium minutorum sec. tempus lætus perspexi. Tandem vero radius Solaris, fulguris instar, in boreali Lunæ limbo emissus oculo Mercurium fere perigeum in tanta festinatione frustra inquisituro jucundissimum hoc Spectaculum, expectatione citius, subduxit.

Gothob. 20 Jun. *Stylo Jul.*
Anni 1733.

XII. Pro-